Index of Claims

| A | \pp | licatio | n/Co | ntrol | No. |
|---|-----|---------|------|-------|-----|
|---|-----|---------|------|-------|-----|

10/632,488

Examiner

**Scott Kastler** 

Applicant(s)/Patent under Reexamination

**DETERING ET AL.** 

Art Unit

1742

| 1 | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

|   | N | Non-Elected  |
|---|---|--------------|
| - | ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cli  | aim      |          |              |   |          | Dat  | e  |   |                 |          | Cli      | Claim Date |               |          |          |           |          |               |               |          |          | [   | Cla   | aim        | Date     |          |          |          |          |          |               |          |  |
|--|----------|----------|--------------|---|----------|--|--|---|-----------------|----------|----------|------------|---------------|----------|----------|-----------|----------|---------------|---------------|----------|----------|-----|-------|------------|----------|----------|----------|----------|----------|----------|---------------|----------|--|
| Final  | Original | 20%      |              |   |          |  |  |   |                 |          | Final    | Original   |               |          |          |           |          |               |               |          |          |     | Final | Original   |          |          |          |          |          |          |               |          |  |
|  | 1        | Y        |              |   |          | m  | İ  |   |                 |          |          | 51         | $\Box$        | $\dashv$ | T        | $\exists$ |          |               |               | 7        |          |     |       | 101        |          |          |          |          |          |          |               |          |  |
|  | 2        |          |              |   |          |  |  |   |                 |          |          | 52         | П             |          |          |           |          |               |               |          |          |     |       | 102        |          |          |          |          |          |          |               |          |  |
|  | 3        |          |              |   |          |  |  |   |                 |          |          | 53         |               |          |          |           |          |               |               |          |          | - { |       | 103        |          |          |          |          |          |          |               |          |  |
|  | 4        |          |              |   |          |  |  | $oxed{oxed}$  |                 |          |          | 54         |               |          |          |           | $\Box$   |               | _]            |          |          |     |       | 104        |          |          |          |          |          |          |               |          |  |
|  | 5        | Ш        |              | $oxed{oxed}$  |          | L  |  |   |                 | Ш        |          | 55         | Ш             |          |          |           |          | $\perp$       |               | $\perp$  |          |     |       | 105        |          |          |          |          |          |          | _             |          |  |
|  | 6        | Щ        |              | L   |          | <u>L</u>   | <u> </u>   |   | Ш               | Щ        |          | 56         |               | $\perp$  | $\perp$  | _         | $\perp$  |               | _             |          | _        | Į   |       | 106        | _        |          |          |          | Ш        |          | <u></u>       | L        |  |
|  | 7        | Щ        | _            |   |          | ┖  | L  | _   | Ш               |          | <u></u>  | 57         | $\sqcup$      | _        | $\dashv$ | 4         | 4        | 4             | _             | 4        | _        | ļ   |       | 107        | _        | _        |          |          | Щ        |          | <u> </u>      | L        |  |
|  | 8        | Щ        |              |   | _        | ╙  | ┞  |   | Ш               | Ц.       | <u> </u> | 58         | $\sqcup$      | 4        | $\dashv$ | _         | 4        | 4             | _             | _        | _        | ļ   |       | 108        | _        | _        |          |          | Ш        |          | <u>—</u>      | L        |  |
|  | 9        | Ц        |              |   |          | <u> </u>   | <u> </u>   |   |                 | _        |          | 59         | $\sqcup$      | 4        | _        | _         | _        | 4             | _             | _        | 4        | ļ   |       | 109        | _        | _        |          |          |          |          | <u>—</u>      | L        |  |
|  | 10       | Н        |              |   | _        | ┡  | ↓  | <u> </u>  | Н               | _        |          | 60         | $\vdash$      |          | -        | -         | -        | 4             | _             | $\dashv$ | _        | ŀ   |       | 110        | -        | _        |          |          | Ш        |          |               | ┞        |  |
|  | 11       | Н        | _            |   | _        | <u> </u>   | ┝  | -   | Н               |          | ļ        | 61         | $\vdash$      | -        | -        | +         | 4        | -             | _             | 4        | _        | ŀ   |       | 111        |          | _        |          |          | Ш        | _        | $\vdash$      | ┡        |  |
|  | 12       | H        | -            | H   |          | <u> </u>   | <b> </b>   | -   | Н               | _        | -        | 62         | ╌┼            | -+       | +        | +         | +        | -             | -             | -        | $\dashv$ | ŀ   |       | 112        | -+       | $\dashv$ |          | -        | Н        | $\dashv$ | $\vdash$      | ⊢        |  |
| <b> </b> -                                       | 13<br>14 | -        | ⊢            | -   | _        | ┢  | H  | -   | Н               | _        |          | 63<br>64   | $\vdash$      | $\dashv$ | +        | +         | +        | +             | $\dashv$      | $\dashv$ | $\dashv$ | -   |       | 113        | $\dashv$ | -        | -        |          | Н        | _        | _             | ⊢        |  |
|  | 15       | Н        | -            |   | -        | ╁  | H  | $\vdash$  | $\vdash$        |          |          | 65         | H             | $\dashv$ | $\dashv$ | +         | +        | +             | -             | +        | $\dashv$ | }   |       | 114<br>115 | $\dashv$ | -        |          |          | Н        | -        |               | ⊢        |  |
|  | 16       | H        | -            | -   |          | ₩  | -  | -   |                 | $\dashv$ | -        | 66         | <del>├</del>  | +        | -        | -         | +        | +             |               | $\dashv$ | $\dashv$ | - } |       | 116        | -+       |          |          |          |          |          | $\vdash$      | ⊢        |  |
|  | 17       | Н        | -            |   |          | ┢  |  | $\vdash$  | Н               | $\dashv$ | <u> </u> | 67         | -             | $\dashv$ | $\dashv$ | $\dashv$  | -        | +             | +             | $\dashv$ | $\dashv$ | ŀ   |       | 117        | $\dashv$ | -        | -        |          | Н        | _        | $\vdash$      | ⊢        |  |
|  | 18       | Н        | ┝            | -   | _        | -  | ┢  | ┝   | $\vdash$        |          |          | 68         | +             | -+       | -+       | -+        | +        | $\dashv$      |               | $\dashv$ | $\dashv$ | -   |       | 118        | $\dashv$ | $\dashv$ |          |          | Н        | $\dashv$ |               | ┢        |  |
|  | 19       | -        | <del> </del> |   | _        | ┢  | ┢  | ⊢   | Н               | $\dashv$ | -        | 69         | +             | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$ | $\dashv$ | ł   |       | 119        | $\dashv$ | $\dashv$ |          | $\vdash$ | $\vdash$ | $\dashv$ | _             | ┢        |  |
|  | 20       | H        | $\vdash$     |   |          | ╁  | ├  | ┢   |                 |          | -        | 70         |               | +        | ┰        | -+        | +        | ┪             | $\dashv$      | $\dashv$ | $\dashv$ | -   |       | 120        | $\dashv$ |          | -        | $\vdash$ | $\vdash$ |          |               | ┢        |  |
|  | 21       | Н        | $\vdash$     |   |          | $\vdash$   | <del>                                     </del> | ┢   | $\vdash$        |          | -        | 71         | +-+           | -        | -+       | $\dashv$  | -+       | 十             | -+            | $\dashv$ | $\dashv$ | 1   |       | 121        | +        |          |          | $\vdash$ | Н        | _        | _             | ┢        |  |
|  | 22       | H        | $\vdash$     | -   |          | <del>                                     </del> | <del> </del>                                     | -   |                 |          | -        | 72         | <del> </del>  | $\dashv$ | 十        | _         | -        | $\dashv$      | $\dashv$      | +        | ᅥ        | ŀ   |       | 122        | $\dashv$ | _        |          |          |          |          | $\overline{}$ | ┢        |  |
|  | 23       | V        | $\vdash$     |   |          | t  |  | $\vdash$  |                 |          |          | 73         |               | _        | 1        | 1         | 1        | _             | 1             |          | 1        | ŀ   |       | 123        | 7        |          |          |          |          |          | $\overline{}$ | H        |  |
|  | 24       | •        | <u> </u>     |   |          | <del> </del>                                     | T  |   | Н               | $\neg$   |          | 74         | t             | 寸        | 寸        | $\top$    | $\dashv$ | 7             | 7             | $\dashv$ | ┪        | Ì   |       | 124        | $\dashv$ | ヿ        |          |          |          |          | $\Box$        | T        |  |
|  | 25       |          |              |   |          | Ħ  |  |   | П               | $\neg$   |          | 75         |               | $\dashv$ | 7        | 7         | 十        | 寸             | 7             | 1        | ヿ        |     |       | 125        | 寸        | $\neg$   |          |          |          |          |               | Г        |  |
|  | 26       |          |              |   |          | T  |  |   | П               |          |          | 76         |               | $\neg$   | T        | T         | 寸        |               |               | 一        | ╗        | 1   |       | 126        | $\neg$   |          |          |          |          |          | $\sqcap$      | Г        |  |
|  | 27       |          |              |   |          |  |  |   |                 |          |          | 77         |               | T        | T        |           | T        | T             |               | 寸        | $\neg$   |     |       | 127        | $\neg$   |          |          |          |          |          |               |          |  |
|  | 28       |          |              |   |          |  |  |   | П               |          |          | 78         |               |          |          | T         | T        |               |               |          | $\neg$   |     |       | 128        | T        |          |          |          |          |          | $\Box$        | Г        |  |
|  | 29       |          |              |   |          |  |  |   |                 |          |          | 79         |               |          |          |           |          |               |               |          |          |     |       | 129        |          |          |          |          |          |          |               |          |  |
|  | 30       |          |              |   |          | L_   | L  |   |                 |          |          | 80         |               |          |          |           |          |               |               |          |          |     |       | 130        |          |          |          |          |          |          |               |          |  |
| L  | 31       |          |              |   |          |  |  |   | Ш               |          |          | 81         |               |          |          |           |          |               |               |          |          |     |       | 131        |          |          |          |          |          |          |               | L        |  |
|  | 32       |          |              |   |          |  | L  | L   | Ш               | _        |          | 82         |               | $\perp$  | _        | _         | _        | $\perp$       | $\perp$       |          | _        |     |       | 132        |          |          |          |          |          |          |               | L        |  |
|  | 33       | _        | _            | $ldsymbol{le}}}}}}$ |          |  |  | $ldsymbol{ld}}}}}}$ | Ш               | _        |          | 83         | $\sqcup \bot$ | $\dashv$ | 4        | 4         | 4        | $\perp$       | _             | _        | _        |     |       | 133        | _        |          |          |          |          |          | <u></u>       | <u> </u> |  |
|  | 34       | <u> </u> | <u> </u>     | <u> </u>  | _        | L  | <u> </u>   | L   |                 | _        |          | 84         |               | _        | _        | 4         | 4        | $\rightarrow$ | _             | 4        | _        |     |       | 134        | _        | _        |          |          |          |          | $\vdash$      | L        |  |
|  | 35       |          | <u> </u>     |   | <u> </u> | L-   | $\vdash$   | <u> </u>  | $\sqcup$        | _        |          | 85         | $\sqcup$      | _        | 4        | $\dashv$  | 4        | _             | $\rightarrow$ | $\dashv$ | _        |     |       | 135        | _        | _        |          |          | Ш        |          | <u> — </u>    | ot       |  |
|  | 36       |          | _            |   |          |  | <u> </u>   | <u> </u>  | Н               |          |          | 86         | $\vdash$      | 4        | _        | $\perp$   | 4        | _             | _             | _        | _        |     |       | 136        | _        | _        |          |          | Ш        |          | <u> </u>      | Ļ        |  |
| <u> </u>   | 37       | <u> </u> | ┞—           | _   |          |  |  | _   | Н               | _        | -        | 87         | <b>.</b>      | $\dashv$ |          |           | +        | +             | -             | -        | $\dashv$ |     |       | 137        | -+       |          |          |          | Н        | _        | <del></del>   | ⊢        |  |
| <u> </u>   | 38       | <u> </u> | <u> </u>     |   |          | $\vdash$   |  | $\vdash$  | $\vdash \vdash$ | $\dashv$ | -        | 88         | <b>├</b> -    | $\dashv$ | -        | +         | +        | -             | $\dashv$      | $\dashv$ | $\dashv$ |     |       | 138        |          |          |          |          | $\vdash$ |          | <u> </u>      | ⊬        |  |
| <u> </u>   | 39       | $\vdash$ | $\vdash$     | $\vdash$  | <u> </u> | $\vdash$   | ⊢  | ├   | $\vdash$        | $\dashv$ | -        | 89         | $\vdash$      | $\dashv$ | $\dashv$ | +         | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$ | $\dashv$ | ļ   |       | 139        |          | $\dashv$ |          | $\vdash$ | Н        | $\vdash$ | _             | $\vdash$ |  |
|  | 40<br>41 |          | $\vdash$     |   |          | $\vdash$   |  | ┢   | Н               | $\dashv$ | -        | 90<br>91   | $\vdash$      | $\dashv$ | $\dashv$ | $\dashv$  | +        | $\dashv$      | +             | $\dashv$ | $\dashv$ |     |       | 140<br>141 | -        | $\dashv$ | $\vdash$ | -        | $\vdash$ |          | -             | ⊢        |  |
| <del> </del>                                     | 42       | -        | -            | -   | $\vdash$ | -  | $\vdash$   | $\vdash$  | $\vdash$        | $\dashv$ | -        | 92         | ++            | $\dashv$ | $\dashv$ | +         | +        | -             | -+            | $\dashv$ | $\dashv$ | ŀ   |       | 141        |          | $\dashv$ |          | $\vdash$ | Н        | $\vdash$ | <u> </u>      | $\vdash$ |  |
| <u> </u>   | 43       | <u> </u> |              | $\vdash$  | $\vdash$ | $\vdash$   |  | -   | $\vdash$        | $\dashv$ | <b>—</b> | 93         |               | -+       | +        | +         | +        | $\dashv$      | -             | $\dashv$ | $\dashv$ |     |       | 143        | $\dashv$ | -        | $\vdash$ | $\vdash$ | $\vdash$ |          | $\overline{}$ | $\vdash$ |  |
|  | 43       | $\vdash$ | <del> </del> | $\vdash$  | -        | $\vdash$   | $\vdash$   | $\vdash$  | $\vdash$        | $\dashv$ | $\vdash$ | 94         | $\vdash$      | $\dashv$ | $\dashv$ | +         | +        | $\dashv$      | $\dashv$      | +        | $\dashv$ | 1   |       | 144        | $\dashv$ | -        | -        | -        | Н        | $\dashv$ |               | ╁╴       |  |
| <del></del>                                      | 45       | -        | $\vdash$     | H   | _        | 1  | $\vdash$   | $\vdash$  | $\vdash \vdash$ | {        |          | 95         | -             | $\dashv$ | $\dashv$ | +         | +        | $\dashv$      | $\dashv$      | $\dashv$ | $\dashv$ | }   |       | 145        | -+       | -        | Н        | $\dashv$ | Н        | $\vdash$ | $\overline{}$ | ⊢        |  |
| <del>                                     </del> | 46       | $\vdash$ | $\vdash$     | $\vdash$  | -        | -  | -  | $\vdash$  | $\vdash$        | $\dashv$ | -        | 96         | $\vdash$      | $\dashv$ | +        | +         | +        | $\dashv$      | $\dashv$      | $\dashv$ | $\dashv$ | ł   |       | 146        | $\dashv$ | -        | -        |          | Н        | $\vdash$ | _             | $\vdash$ |  |
| <del></del>                                      | 47       |          | -            | H   |          | ┢  | H  | -   | H               | $\dashv$ |          | 97         | $\vdash$      | $\dashv$ | +        | +         | +        | 十             | $\dashv$      | +        | $\dashv$ | ł   |       | 147        | $\dashv$ | ᅱ        | $\dashv$ | $\dashv$ | Н        | $\dashv$ | -             | $\vdash$ |  |
| <u> </u>   | 48       | $\vdash$ | $\vdash$     | H   | -        | $\vdash$   | $\vdash$   | $\vdash$  | $\vdash \vdash$ | $\dashv$ | _        | 98         |               | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | +             | $\dashv$      | +        | $\dashv$ | ł   |       | 148        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | Н        | -        | <u> </u>      | $\vdash$ |  |
|  | 49       | -        | Н            | Н   | Н        | $\vdash$   | $\vdash$   | $\vdash$  | $\vdash$        | $\dashv$ | -        | 99         |               | +        | $\dashv$ | +         | +        | +             | $\dashv$      | +        | $\dashv$ | ł   |       | 149        | $\dashv$ | $\dashv$ |          | $\dashv$ | $\vdash$ | -        |               | $\vdash$ |  |
| <b></b>  | 50       | $\vdash$ |              | Н   |          | T  |  | <del>                                     </del>  | $\vdash \vdash$ | $\dashv$ |          | 100        | $\vdash$      | $\dashv$ | 十        | $\dashv$  | $\dashv$ | $\dashv$      | $\dashv$      | +        | $\dashv$ | ŀ   |       | 150        | -        | $\dashv$ | $\vdash$ | -        | H        | -        |               | $\vdash$ |  |
|  |          |          |              |   |          |  |  |   |                 |          |          |            |               |          |          |           |          | - 1           | - 1           | - 1      |          |     |       |            | - 1      | ł        |          |          |          | ,        | i .           | 1        |  |